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Short CV

Prof. Lise Appels holds a M.Sc. in Environmental Engineering (2006, University of Antwerp) and a PhD. in Chemical Engineering (KU Leuven, 2010). The topic of her PhD was the optimisation of the anaerobic digestion of waste activated sludge. In 2013, she was appointed assistant professor in the Chemical Engineering Department of KU Leuven (Process and Environmental Technology Lab). She further specialises in the bioconversion of biomass and waste for the production of renewable chemicals and fuels. She has (co-)authored 15 publications in international peer-reviewed journals and has presented numerous contributions at international conferences.

Key paper related to the COST action

- Tyagi, V.K., Lo, S.-L., **Appels, L.**, Dewil, R. (2012). Ultrasonic treatment of waste sludge: a review on mechanisms and applications. *Critical Reviews in Environmental Science & Technology (Accepted)*.
- Lauwers, J., **Appels, L.**, Thompson, I.P., Degrève, J., Van Impe, J., Dewil, R. (2013). Mathematical modelling of anaerobic digestion of biomass and waste: powers and limitations. *Progress in Energy and Combustion Science*, 39(4), 383-402.
- Appels, L.**, Houtmeyers, S., Degrève, J., Van Impe, J., Dewil, R. (2013). Influence of microwave pre-treatment on sludge solubilisation and pilot scale semi-continuous anaerobic digestion. *Bioresource Technology*, 128, 598-603.
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- Appels, L.**, Van Assche, A., Willems, K., Degrève, J., Van Impe, J., Dewil, R. (2011). Peracetic acid oxidation as an alternative pre-treatment for the anaerobic digestion of waste activated sludge. *Bioresource Technology*, 102 (5), 4124-4130.
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- Dewil, R., Baeyens, J., **Appels, L.** (2007). Enhancing the use of waste activated sludge as bio-fuel through selectively reducing its heavy metal content. *Journal of Hazardous Materials*, 144 (3), 703-707.